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Blockchain and Cryptocurrency Complexity

Guest Editors:

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Deadline for manuscript submissions:
closed (18 February 2024)

Message from the Guest Editors

Bitcoin represents the most important application of blockchain. This technology has rapidly expanded and led to the emergence of a rich ecosystem composed of many cryptocurrencies, whose complexity impacted society at different levels and gained the attention of scientific communities.

Understanding and forecasting the dynamics of cryptocurrencies is a fascinating challenge; the goal of this Special Issue is to collect relevant contributions in this field. Due to their potential in unveiling and describing complex phenomena, particular interest is oriented towards methods based on statistical physics, machine learning, and their combination.

For instance, network theory and deep learning, which have been proven to be successful in investigating this technology, can be exploited the study of many other aspects related to the dynamics of cryptocurrencies, their behaviour, and their interactions with other systems and technologies.

Contributions are expected to shed light on the above issues and many others related to the world of blockchain, bitcoin, and cryptocurrencies, proposing original ideas and innovative approaches.

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Message from the Editor-in-Chief

The concept of entropy is traditionally a quantity in physics that has to do with temperature. However, it is now clear that entropy is deeply related to information theory and the process of inference. As such, entropic techniques have found broad application in the sciences.

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